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1999.12.01 1999-342366(+1999JP-342366) *(2001.06.12)* C08L 53/00, C08K 5/057 (C08L 23:00, 53/00)

Block copolymer composition with good softness even at high temperature

C2001-150319

A(4-C1A, 4-G1B, 6-AB)

NOVELTY

Block copolymer composition consists of (a) organic high molecular compounds and (b) metal oxides. The weight ratio of (a) to the total of (a) and (b) is 0.750-0.999.

DETAILED DESCRIPTION

(a) are linear block copolymers having polymer block (i) consisting of aromatic vinyl compounds and polymer block (ii) consisting of olefins. (b) are high molecular compounds having crosslinked structure consisting of metal atoms bonded to each other through the medium of O atoms and containing at least 20 mol % of Si atoms based on the whole metal atoms. The block copolymer composition is formed of completely compatibilized (a) and (b) or co-continuous structure of a phase consisting of (a) and a phase consisting of (b) or matrix-domain structure where (a) constitute the matrix and (b) constitute the domain.

USE

The composition is used as hoses, gaskets, wire cable covers, and interior materials of motorcars.

ADVANTAGE

The composition has good softness even at high temp.

TECHNOLOGY FOCUS

Polymers - Preferred material: The weight ratio of (i)/(ii) in (a) is 10/90 -70/30.

Preferred composition: The block copolymer composition further contains (c) process oil and/or polyolefin-type resin. The wt. ratio of (c) to the total of (a) and (b) is 0.01-10.

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